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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/980,809	10/19/2001	Dietmar Rudolph	20811/0204775-US0	8344
7278 DARBY & DA	7590 03/05/200 RBY P.C.	EXAMINER		
P.O. BOX 770	tation	JAMAL, ALEXANDER		
Church Street Station New York, NY 10008-0770			ART UNIT	PAPER NUMBER
			2614	
			MAIL DATE	DELIVERY MODE
			03/05/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	09/980,809	RUDOLPH, DIETMAR	
Office Action Summary	Examiner	Art Unit	
	ALEXANDER JAMAL	2614	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with t	he correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT 1.136(a). In no event, however, may a reply od will apply and will expire SIX (6) MONTHS ute, cause the application to become ABAND	FION. be timely filed from the mailing date of this communication. PONED (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on 12 2a) ☐ This action is FINAL. 2b) ☐ The 3) ☐ Since this application is in condition for allow closed in accordance with the practice under the second sec	nis action is non-final. vance except for formal matters		
Disposition of Claims			
4) Claim(s) is/are pending in the applica 4a) Of the above claim(s) is/are withd 5) Claim(s) is/are allowed. 6) Claim(s) 4.6-8.10-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9) The specification is objected to by the Exami 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	ccepted or b) objected to by the drawing(s) be held in abeyance. ection is required if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority docume 2. ☐ Certified copies of the priority docume 3. ☐ Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a limit	ents have been received. ents have been received in Appli riority documents have been rec eau (PCT Rule 17.2(a)).	ication No eived in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Ma	mary (PTO-413) ail Date nal Patent Application	

Application/Control Number: 09/980,809 Page 2

Art Unit: 2614

DETAILED ACTION

Response to Amendment

- 1. Based upon the submitted amendmen, entered via RCE, the examiner notes that claims 4,8,12-14 have been amended and claims 1-3,5,9 are cancelled.
- 2. As per the included interview summary, examiner notes that applicant has admitted the 'multi-stage modulator', 'internet', 'data base storing', 'automatic switchover' and 'frequency prognosis' terms in the claims are –not- described in the specification, and are read to be well known terms that one of skill in the art would obviously know how to apply to applicant's claimed invention (or to any other invention in the same field).
- 3. The examiner notes that applicant's specification does not specifically define the term 'digital quality data' in the specification. As such the examiner reads the term broadly as a digital indication of a signal parameter.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Art Unit: 2614

2. Claims 4,8,12-14,6,7,10,11 are rejected under 35 U.S.C. 102(e) as being anticipated by Kleider et al. (6084919).

As per claim 4, Kleider discloses a system that performs a method to improve the quality by controlling the parameters of a digital radio transmission (ABSTRACT, Fig. 5). The method comprises receiver 16 (Fig. 2) adjacent to target area 14 that evaluates quality data via blocks 34,36, to determine parameters C,F,B,P,b that are transmitted automatically to transmitter 12. Kleider discloses that the wireless network may be connected to the internet (Col 1 lines 10-20). The channel classification monitor 26, in combination with block 34 perform a frequency prognosis via transmitted parameters Cce' and F for the purpose of influencing the channel coder 22 and source coder 20 of the transmitter. The parameters are stored in spectrum table memory 27. The parameters also need to inherently be stored at every processing stage of the system and method for the purpose of allowing the digital processing to occur. The spectrum is produced via digital means in a digital processing system. The parameters indicating the signal characteristics are digital signals. Either of these can read as 'digital quality data'. In addition the digital received data can be considered the 'digital quality data' because that is analyzed in order to determine the spectrum. The examiner notes A/D converter (Col 5 lines 20-40), and notes that all of the processing is done digitally.

As per **claim 8**, it is rejected as per the claim 4 rejection. The multi mode modulator can vary the transmit frequencies of the system (Col 4 lines 30-45).

Application/Control Number: 09/980,809

Art Unit: 2614

As per **claims 12,13**, they are rejected as per the claim 8 rejection. The block 34 of Fig. 2 comprises a feedback channel that increases reception quality and coverage reliability by preselecting better coding/modulation.

Page 4

As per **claim 14**, it is rejected as per the claim 12 rejection. Kleider discloses (Col 4 lines 30-40) that the multi mode modulator can vary the type of modulation. Examiner notes that a QAM modulation (which is well known is spread spectrum communications) may have any number of different stages (carriers). Examiner reads each of these as a different 'type' and notes that the modulator and channel interleaver would function to vary the number of stages in order to increase transmission quality.

As per claims 6,10, the transmission is wirelessly broadcast (Fig. 5).

As per claims 7,11, they are rejected as per claim 4.

Response to Arguments

1. Applicant's arguments with respect to all claims have been considered but are not persuasive.

As per applicant's arguments that Kleider does not disclose detecting digital quality data of a high frequency signal and using that to make parameter values, the examiner disagrees. The examiner notes that this term is not specifically defined in applicant's specification and is read broadly as defined above.

Kleider discloses that the channel is analyzed via an incoming signal (which may be wired or wireless (received high frequency digital signal)) (Col 5 lines 1-40). This

Art Unit: 2614

may be thought of as digital quality data, in addition to the parameters or the spectrum estimate. All of these are used to vary the transmission parameters.

As per applicant's argument that Kleider discloses that the system monitors the spectrum independent of the transmitted data. Applicant is only reading on embodiment disclosed by Kleider. In Col 3 lines 30-50 Kleider discloses another embodiment that digital parameters may be sent as part of the digital transmitted signals (this could be read as digital quality data).

2. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Application/Control Number: 09/980,809

Art Unit: 2614

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Alexander Jamal whose telephone number is 571-272-7498. The examiner

Page 6

can normally be reached on M-F 9AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Curtis A Kuntz can be reached on 571-272-7499. The fax phone numbers for the organization

where this application or proceeding is assigned are 571-273-8300 for regular communications

and 571-273-8300 for After Final communications.

/Alexander Jamal/

Primary Examiner, Art Unit 2614

Examiner Alexander Jamal

March 5, 2009